

Application No. 10/000,276
Amendment Dated 3/11/05
Reply to Office Action of 11/24/04

This listing of claims will replace all prior versions, and listings, of claims in the application:

In the Claims:

1. (CURRENTLY AMENDED) A urinary flow control valve comprising:
a double-duckbill valve adapted to fluidly communicate with a urine discharge passageway and having passageway, said double-duckbill valve having:
an inlet orifice operable to control urine flow therethrough;
a first duckbill structure having a first pair of inclined walls terminating at a first apex; and
a second duckbill structure oriented perpendicular to said first duckbill structure and having a second pair of inclined walls terminating at a second apex;
said inlet orifice comprising a single slit formed in only one of said first and second apexes.
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4. (ORIGINAL) The urinary flow control valve of claim 1 further comprising an elastomeric band disposed about said double-duckbill valve and operable to urge said inlet orifice to a closed position.

5. (CURRENTLY AMENDED) The urinary flow control valve of claim 1 further comprising:

a valve housing defined by at least one wall; and

an ~~isolating~~isolation member extending from said wall to said double-duckbill valve, said double-duckbill valve being supported in said valve housing in spaced relationship with said wall by said ~~isolating~~isolation member.

6. (ORIGINAL) The urinary flow control valve of claim 5, said isolation member being a stem.

7. (ORIGINAL) The urinary flow control valve of claim 6, said stem being flexible.

8. (ORIGINAL) The urinary flow control valve of claim 5, said isolation member being a tubular stem.

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9. (ORIGINAL) The urinary flow control valve of claim 8, said tubular stem being coupled with said double-duckbill valve so as to allow urine to flow through said stem.

10. (ORIGINAL) The urinary flow control valve of claim 9, said valve housing having a discharge outlet, the tubular stem being coupled between said discharge outlet and said double-duckbill valve.

11. (ORIGINAL) The urinary flow control valve of claim 8, said tubular stem being flexible.

12. (ORIGINAL) The urinary flow control valve of claim 1 further comprising:
a valve housing containing said double-duckbill valve;
said valve housing having a discharge outlet operatively coupled with said double-duckbill valve.

13. (ORIGINAL) The urinary flow control valve of claim 1 further comprising a crush limiting member associated with said double-duckbill valve.

14. (WITHDRAWN) The urinary flow control valve of claim 13, said crush limiting member including a tube member disposed within said double-duckbill valve.

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15. (ORIGINAL) The urinary flow control valve of claim 13, said crush limiting member including a blade member disposed within said double-duckbill valve.

16. (WITHDRAWN) The urinary flow control valve of claim 13, said crush limiting member including a stop member disposed external to said double-duckbill valve.

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17. (CURRENTLY AMENDED) A flow control valve comprising:

a valve member having a normally closed inlet orifice;

~~a separate~~ an elastomeric band disposed about said valve member and
operable to urge said inlet orifice to a closed ~~position-~~ position;

a flexible valve housing defined by at least one flexible wall; and

an isolation member extending from said wall to said valve member, said
valve member being supported in said valve housing in spaced relationship with said
wall by said isolation member so as to be actuatable.

18. (CURRENTLY AMENDED) The flow control valve of claim 17 wherein said valve
member has a groove associate therewith, the elastomeric band being a separate
component and situated in said groove.

19. (CURRENTLY AMENDED) The flow control valve of claim 17 wherein said valve
member has a base and at least a pair of ~~[[lips]]~~ inclined walls extending from said base
at respective junctures of said ~~[[lips]]~~ inclined walls with said base, said band being
positioned inwardly of said junctures of said ~~[[lips]]~~ inclined walls with said base.

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21. (CURRENTLY AMENDED) The flow control valve of claim [[20,]] 17, said isolation member being a stem.

22. (ORIGINAL) The flow control valve of claim 21, said stem being flexible.

23. (CURRENTLY AMENDED) The flow control valve of claim [[20,]] 17, said isolation member being a tubular stem.

24. (ORIGINAL) The flow control valve of claim 23, said tubular stem being coupled with said valve member so as to allow fluid to flow through said stem.

25. (ORIGINAL) The flow control valve of claim 23, said tubular stem being flexible.

26. (ORIGINAL) The flow control valve of claim 17 further comprising a crush limiting member associated with said valve member.

27. (WITHDRAWN) The flow control valve of claim 26, said crush limiting member including a tube member disposed within said valve member.

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28. (ORIGINAL) The flow control valve of claim 26, said crush limiting member including a blade member disposed within said valve member.
29. (WITHDRAWN) The flow control valve of claim 26, said crush limiting member including a stop member disposed external to said valve member.
30. (ORIGINAL) The flow control valve of claim 17, said inlet orifice being defined by a single slit.
31. (ORIGINAL) The flow control valve of claim 17, said valve member being a double-duckbill valve.

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32. (CURRENTLY AMENDED) A flow control valve comprising:
a valve member having a normally closed inlet orifice;
a valve housing ~~containing said valve member; and~~
an isolation member extending between said valve housing and said valve member whereby to support said valve member in spaced relationship to said valve ~~[[housing.]]~~ housing;
said isolation member being a stem.

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34. (CURRENTLY AMENDED) The flow control valve of claim ~~[[33.]]~~ 32, said stem being flexible.

35. (CURRENTLY AMENDED) The flow control valve of claim 32, said ~~[[isolation member]]~~ stem being ~~[[a]]~~ tubular ~~[[stem]]~~.

36. (ORIGINAL) The flow control valve of claim 35, said tubular stem being coupled with said valve member so as to allow fluid to flow through said stem.

37. (ORIGINAL) The flow control valve of claim 35, said tubular stem being flexible.

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38. (ORIGINAL) The flow control valve of claim 32 further comprising a crush limiting member associated with said valve member.

39. (WITHDRAWN) The flow control valve of claim 38, said crush limiting member including a tube member disposed within said valve member.

40. (ORIGINAL) The flow control valve of claim 38, said crush limiting member including a blade member disposed within said valve member.

41. (WITHDRAWN) The flow control valve of claim 38, said crush limiting member including a stop member disposed external to said valve member.

42. (ORIGINAL) The flow control valve of claim 32, said inlet orifice being defined by a single slit.

43. (ORIGINAL) The flow control valve of claim 32, said valve member being a double-duckbill valve.

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44. (CURRENTLY AMENDED) A flow control valve comprising:
a valve member having a normally closed inlet orifice; and
a crush limiting member associated with said valve member.
45. (WITHDRAWN) The flow control valve of claim 44, said crush limiting member including a tube member disposed within said valve member.
46. (ORIGINAL) The flow control valve of claim 44, said crush limiting member including a blade member disposed within said valve member.
47. (WITHDRAWN) The flow control valve of claim 44, said crush limiting member including a stop member disposed external to said valve member.
48. (ORIGINAL) The flow control valve of claim 44, said inlet orifice being defined by a single slit.
49. (ORIGINAL) The flow control valve of claim 44, said valve member being a double-duckbill valve.

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50. (CURRENTLY AMENDED) A urinary catheter comprising:

a urine discharge passageway;

a urinary flow control valve associated with said urine discharge
passageway;

said urinary flow control valve being a double-duckbill valve;

said double-duckbill valve ~~[[having]]~~ having:

an inlet orifice operable to control urine flow ~~[[therethrough.]]~~
therethrough;

a first duckbill structure having a first pair of inclined walls
terminating at a first apex; and

a second duckbill structure oriented perpendicular to said first
duckbill structure and having a second pair of inclined walls terminating at a second
apex;

said inlet orifice comprising a single slit formed in only one of said
first and second apices.

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53. (ORIGINAL) The urinary catheter of claim 50 further comprising an elastomeric band disposed about said double-duckbill valve and operable to urge said inlet orifice to a closed position.

54. (CURRENTLY AMENDED) The urinary ~~[[flow control valve]]~~ catheter of claim 50 further comprising:

a valve housing defined by at least one wall; and

an ~~isolating~~-isolation member extending from said wall to said double-duckbill valve, said double-duckbill valve being supported in said valve housing in spaced relationship with said wall by said ~~isolating~~-isolation member.

55. (ORIGINAL) The urinary catheter of claim 50, further comprising a crush limiting member associated with said double-duckbill valve.

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56. (NEW) A urinary flow control valve comprising:

a double-duckbill valve adapted to fluidly communicate with a urine discharge passageway, said double-duckbill valve having:

an inlet orifice operable to control urine flow therethrough;

a first duckbill structure terminating at a first apex; and

a second duckbill structure oriented perpendicular to said first duckbill structure and terminating at a second apex;

said inlet orifice comprising a single slit formed in only one of said first and second apexes; and

an elastomeric band disposed about said double-duckbill valve and operable to urge said inlet orifice to a closed position.

57. (NEW) The urinary flow control valve of claim 56 further comprising:

a valve housing defined by at least one wall; and

an isolation member extending from said wall to said double-duckbill valve, said double-duckbill valve being supported in said valve housing in spaced relationship with said wall by said isolation member.

58. (NEW) The urinary flow control valve of claim 57, said isolation member being a stem.

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59. (NEW)) The urinary flow control valve of claim 58, said stem being flexible.
60. (NEW) The urinary flow control valve of claim 57, said isolation member being a tubular stem.
61. (NEW) The urinary flow control valve of claim 60, said tubular stem being coupled with said double-duckbill valve so as to allow urine to flow through said stem.
62. (NEW) The urinary flow control valve of claim 61, said valve housing having a discharge outlet, the tubular stem being coupled between said discharge outlet and said double-duckbill valve.
63. (NEW) The urinary flow control valve of claim 60, said tubular stem being flexible.
64. (NEW) The urinary flow control valve of claim 56 further comprising:
a valve housing containing said double-duckbill valve;
said valve housing having a discharge outlet operatively coupled with said double-duckbill valve.

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65. (NEW) The urinary flow control valve of claim 56 further comprising a crush limiting member associated with said double-duckbill valve.

66. (NEW) The urinary flow control valve of claim 65, said crush limiting member including a blade member disposed within said double-duckbill valve.

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67. (NEW) A urinary catheter comprising:
- a urine discharge passageway;
 - a urinary flow control valve associated with said urine discharge passageway;
 - said urinary flow control valve being a double-duckbill valve;
 - said double-duckbill valve having an inlet orifice operable to control urine flow therethrough; and
 - an elastomeric band disposed about said double-duckbill valve and operable to urge said inlet orifice to a closed position.
68. (NEW) The urinary catheter of claim 67, the double-duckbill valve having:
- a first duckbill structure having a first pair of inclined walls terminating at a first apex; and
 - a second duckbill structure oriented perpendicular to said first duckbill structure and having a second pair of inclined walls terminating at a second apex;
 - said inlet orifice comprising a single slit formed in only one of said first and second apexes.

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69. (NEW) The urinary catheter of claim 67 further comprising:
a valve housing defined by at least one wall; and
an isolating member extending from said wall to said double-duckbill valve, said double-duckbill valve being supported in said valve housing in spaced relationship with said wall by said isolating member.
70. (NEW) The urinary catheter of claim 69, said isolation member being a stem.
71. (NEW) The urinary catheter of claim 70, said stem being flexible.
72. (NEW) The urinary catheter of claim 69, said isolation member being a tubular stem.
73. (NEW) The urinary catheter of claim 72, said tubular stem being coupled with said double-duckbill valve so as to allow urine to flow through said stem.
74. (NEW) The urinary catheter of claim 73, said valve housing having a discharge outlet, the tubular stem being coupled between said discharge outlet and said double-duckbill valve.

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75. (NEW) The urinary catheter of claim 72, said tubular stem being flexible.
76. (NEW) The urinary catheter of claim 67 further comprising:
a valve housing containing said double-duckbill valve;
said valve housing having a discharge outlet operatively coupled with said
double-duckbill valve.
77. (NEW) The urinary catheter of claim 67 further comprising a crush limiting
member associated with said double-duckbill valve.
78. (NEW) The urinary catheter of claim 77, said crush limiting member including a
blade member disposed within said double-duckbill valve.

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79. (NEW) A urinary catheter comprising:
- a urine discharge passageway;
 - a urinary flow control valve associated with said urine discharge passageway;
 - said urinary flow control valve being a double-duckbill valve;
 - said double-duckbill valve having an inlet orifice operable to control urine flow therethrough;
 - a valve housing defined by at least one wall; and
 - an isolation member extending from said wall to said double-duckbill valve, said double-duckbill valve being supported in said valve housing in spaced relationship with said wall by said isolation member.
80. (NEW) The urinary catheter of claim 79, the double-duckbill valve having:
- a first duckbill structure having a first pair of inclined walls terminating at a first apex; and
 - a second duckbill structure oriented perpendicular to said first duckbill structure and having a second pair of inclined walls terminating at a second apex;
 - said inlet orifice comprising a single slit formed in only one of said first and second apexes.

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81. (NEW) The urinary catheter of claim 79, said isolation member being a stem.

82. (NEW) The urinary catheter of claim 81, said stem being flexible.

83. (NEW) The urinary catheter of claim 79, said isolation member being a tubular stem.

84. (NEW) The urinary catheter of claim 83, said tubular stem being coupled with said double-duckbill valve so as to allow urine to flow through said stem.

85. (NEW) The urinary catheter of claim 84, said valve housing having a discharge outlet, the tubular stem being coupled between said discharge outlet and said double-duckbill valve.

86. (NEW) The urinary catheter of claim 83, said tubular stem being flexible.

87. (NEW) The urinary catheter of claim 79 further comprising a crush limiting member associated with said double-duckbill valve.

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88. (NEW) The urinary catheter of claim 87, said crush limiting member including a blade member disposed within said double-duckbill valve.

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89. (NEW) A urinary catheter, comprising:
- a urine discharge passageway;
 - a valve member associated with said urine discharge passageway and having a normally closed inlet orifice operable to control urine flow therethrough;
 - a valve housing defined by at least one wall; and
 - an isolation member extending from said wall to said valve member, said valve member being supported in said valve housing in spaced relationship with said wall by said isolation member.
90. (NEW) The urinary catheter of claim 89, said isolation member being a stem.
91. (NEW) The urinary catheter of claim 90, said stem being flexible.
92. (NEW) The urinary catheter of claim 89, said isolation member being a tubular stem.
93. (NEW) The urinary catheter of claim 92, said tubular stem being coupled with said valve member so as to allow urine to flow through said stem.

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94. (NEW) The urinary catheter of claim 93, said valve housing having a discharge outlet, the tubular stem being coupled between said discharge outlet and said valve member.

95. (NEW) The urinary catheter of claim 92, said tubular stem being flexible.

96. (NEW) The urinary catheter of claim 89 further comprising a crush limiting member associated with said double-duckbill valve.

97. (NEW) The urinary catheter of claim 96, said crush limiting member including a blade member disposed within said double-duckbill valve.

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98. (NEW) A urinary flow control valve comprising:

a valve member adapted to fluidly communicate with a urine discharge passageway and having an inlet orifice operable to control urine flow therethrough;

a flexible valve housing defined by at least one flexible wall; and

an isolation member extending from said wall to said valve member, said valve member being supported in said valve housing in spaced relationship with said wall by said isolation member so as to be actuatable.

99. (NEW) The urinary flow control valve of claim 98, said isolation member being a stem.

100. (NEW) The urinary flow control valve of claim 99, said stem being flexible.

101. (NEW) The urinary flow control valve of claim 98, said isolation member being a tubular stem.

102. (NEW) The urinary flow control valve of claim 101, said tubular stem being coupled with said valve member so as to allow urine to flow through said stem.

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103. (NEW) The urinary flow control valve of claim 102, said valve housing having a discharge outlet, the tubular stem being coupled between said discharge outlet and said valve member.

104. (NEW) The urinary flow control valve of claim 101, said tubular stem being flexible.

105. (NEW) The urinary flow control valve of claim 98 further comprising a crush limiting member associated with said valve member.

106. (NEW) The urinary flow control valve of claim 105, said crush limiting member including a blade member disposed within said valve member.

107. (NEW) The urinary flow control valve of claim 5 wherein said valve housing is flexible and is defined by at least one flexible wall.

108. (NEW) The urinary flow control valve of claim 57 wherein said valve housing is flexible and is defined by at least one flexible wall.

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109. (NEW) The urinary catheter of claim 69 wherein said valve housing is flexible and is defined by at least one flexible wall.

110. (NEW) The flow control valve of claim 32 wherein said valve member is contained within said valve housing.

111. (NEW) The urinary catheter of claim 89 wherein said valve housing is flexible and is defined by at least one flexible wall.